

## ABSTRACT

A silica-containing conjugated diene rubber composition comprising a conjugated diene rubber - silica mixture (A) containing at least 30 wt% of toluene insoluble components obtainable by co-coagulating an aqueous dispersion or solution of conjugated diene rubber (a) having a glass transition temperature of -120 to 0°C with an aqueous dispersion of silica, blended with a conjugated diene rubber (b) having a glass transition temperature such that the difference in absolute value between the glass transition temperature of rubber (b) and that of rubber (a) is 3 to 100 °C.

According to the invention, it is possible to provide a rubber composition having highly balanced fuel efficiency, wet grip performance, mechanical strength, wear resistance and low temperature brittleness resistance; and suitably used for tire treads.